CLAIM AMENDMENTS

- 1. (currently amended) A composition comprising a hydrogel matrix and a particulate magnetic material <u>having a particle size of 1 to 100 nm dispersed</u> within said matrix, <u>said matrix being permeable and having accessible interior surfaces defining a cage for physical or chemical entrapment of an immuno-reactant or diagnostic agent.</u>
- 2. (original) A composition according to claim 1 wherein said matrix is derived from gelatinized starch granules.
- 3. (original) A composition according to claim 2 in which said granules comprise a framework of amylopectin from which amylose chains have been expelled.
- 4. (currently amended) A composition according to claim 3 wherein said particulate material is super paramagnetic superparamagnetic.
- 5. (currently amended) A composition according to claim 4, wherein said matrix is permeable and has accessible interior surfaces defining a cage for physical or chemical entrapment of has antigens or antibodies physically or chemically entrapped therein.
- 6. (currently amended) In an immunoseparation process employing an immuno-reactant supported by a magnetic substrate and comprising carrying out an immuno-reaction with the supported immuno-reactant in a reaction medium to produce an immuno-reaction product supported by said magnetic substrate, and magnetically separating said magnetic substrate with said reaction product from said reaction medium, the improvement wherein the magnetic substrate is a composition as defined

in claim 1 and the immuno-reactant is entrapped in a the cage of the composition as defined in claim 1.

- 7. (currently amended) In a diagnostic method in which a diagnostic agent is supported in a <u>magnetic</u> support material <u>and comprising reacting the diagnostic agent</u> with a species in a reaction medium to produce a diagnostic reaction product supported by said magnetic support material, and magnetically separating said magnetic support material with said diagnostic reaction product, the improvement wherein the <u>magnetic</u> support material is a composition as defined in claim 1.
- 8. (original) A diagnostic kit comprising a diagnostic agent supported in a composition as defined in claim 1.
- 9. (original) An immunoseparation device comprising an immuno-reactant entrapped in a composition as defined in claim 1.
- 10. (original) A xerogel of the composition of claim 1.
- 11. (new) A process according to claim 6, wherein said matrix is derived from gelatinized starch granules.
- 12. (new) A process according to claim 11, in which said granules comprise a framework of amylopectin from which amylose chains have been expelled.
- 13. (new) A process according to claim 12, wherein said particulate magnetic material is superparamagnetic.
- 14. (new) A process according to claim 6, wherein said immuno-reactant is an antibody.

- 15. (new) A process according to claim 6, wherein said immuno-reactant is an antigen.
- 16. (new) A method according to claim 7, wherein said matrix is derived from gelatinized starch granules, said granules comprising a framework of amylopectin from which amylose chains have been expelled.
- 17. (new) A device according to claim 9, wherein said matrix is derived from gelatinized starch granules, said granules comprising a framework of amylopectin from which amylose chains have been expelled, said immuno-reactant comprising an antibody.
- 18. (new) A device according to claim 9, wherein said matrix is derived from gelatinized starch granules, said granules comprising a framework of amylopectin from which amylose chains have been expelled, said immuno-reactant comprising an antigen.
- 19. (new) A device according to claim 17, wherein said particulate magnetic material is superparamagnetic.